| Work Order | | 7 | | *93: | 367 | 7* | | | ,re | • | | Page 1 | _ |
|---|-------------------------------|---|----------------|------------------------|------|----------------------------|--------|--------------|---------------|-----------------|------------------|-----------------|---|
| Revision ID: | 47.1610 Viper Deflector, F | wd | | Accept | */ | 19000 | 40 | 100 |)* s | etup Star | ı V. | S1* S2* | |
| Start Date: 1 Required Date: 1 Reference: | | art Qty: 3.00 t eq'd Qty: 3.00 | *3* *3* | | | Cust Item ID: Customer: | | | | | | | |
| | Process Plan: _ | MLJ | Date: 12-11-19 | Tooling: SPC (Y/N): | | Date Date | | | R | un Star Stop | | R1* R2* | |
| Sequence ID/ Work Center ID | - | peration escription | | Set Up/ Run Hours | | Tool ID | Γool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp | |
| Draw Nbr | Revisio | n Nbr | | | | | | | | | | | |
| 647.1600 | N/C | | • | | | | | | | | | | |
| 100 * 100* Bandsaw | ВА | ND SAW | | 0.00 | D. A | 13/03/25 | 5 | | _1 | ø | | 0A5 88 89 | |
| Jeaspa Bandsaw | | Cut Blank at | 6.750" | | | | | , | | | | | |
| 110 +440 | HA | AAS CNC VERTICAL | . MACHINING #1 | 0.00 | | | | | 7- | | | | |
| *110* HAAS I HAAS CNC vertical r | nachine #1 | Memo 1-Machine p DWG REV: FOLIO REV | | 0.00 | ml, | 13/03/2 | -6 | | | <i>)</i> 87 | | | |

2- deburr and break all sharp edges

r.2.

| NCR: Ye | s / No | | | | WORK ORDER NON- | COI | NFORI | MANCE / UP | PDATE | ٠ | O | Dat | _ | A |
|---------------|----------|----------|----------|--------|---|------------|------------|---|--|----|--------------|--|----|---------------------------------------|
| F | | | | | | | Γ | | | | QA Closed: | Date | e: | , , , , , , , , , , , , , , , , , , , |
| Work Order: | | | | | DISPOSITION | | : | | AGAINST | DE | PARTMENT | PROCESS | | |
| Part No | | | | | Rework Scrap Use-as-is Work Order Update | | 1 Thern | Skid-tube Machining noforming Large Fab | Crosstube Small Fab Finishing Composite | , | 4 | Water Jet d. Eng. Coor. re/Packaging Supplier | | Engineering Quality Other |
| Root | | | | Descri | ption of work order update | | Initial | Ad | ction | | Sign & | | П | |
| Cause | Date | Step | Qty | (| or Non-conformance | Cr | nief Eng | Desc | cription | | Date | Verification | | QC Inspector |
| Doc/Data | | | | | | | • • | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | ł | |
| Operator | | | | | | | | | | | | | | |
| Material | | į | | | | | | | | | | | | |
| Setup | | | | 1 | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| Process - | | | | | | | | | | | | | İ | |
| Supplier 1 | | | | | | | | | | | | | | |
| Training | _ | ļ | | | | - | | | | | | | | |
| Unapproved | | <u> </u> | | | | <u>L</u> . | | | | | | | | |
| | | | <u> </u> | | . F | AUI | LT CATE | GORY | | | | | _ | |
| Landing | Gear | | | _ | General | | _ | | | _ | - | - | | |
| | Bending | | | | Bend | | Grain | | | L | Ovalized | 1 | | Pressure/Forced |
| | Centre N | ot Conce | ntric to | o/s | BOM/Route | | Hardwa | re | | L | Over/Under | tolerance | | Temperature/Cure |
| 1 | Cracks | | | | Broken/Damaged | : | Inspect | ion Incomplete | | | Part Incorre | ct | | Weld |

Instructions Incomplete/Unclear

Maintenance

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

DQA:

Part Lost/Missing

Positioned Wrong

Power Loss/Surge

Part Moved

Date:

Wrong Stock Pulled

Other

Turning Sequence
Wave/Twist in Tube

Ripples in Bend

Crushed/Crimped.

Inspection Strip in Tube

Torque Waves in Extrusion

Cuffs

Heat Treat

Burrs

Contamination Countersink

Cut Too Short

Drill Holes

Drawing Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

| Work Orde | • | | | *933 | 367* | - No. 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | Page 2 |
|---|-----------------------|--|------------------|------------------------------|----------------------------|--|---------|-----|------------------|------------------|-------------------|
| Item ID: Revision ID: Item Name: | 647.1610 Wiper Deflec | ctor, Fwd | | Accept | *N9000 | 1401 | იი* | Set | up Start Stop | 1 (1) | S1* S2* |
| Start Date: Required Date: Reference: | 11/15/12 12/07/12 | Start Qty: 3.00 Req'd Qty: 3.00 | *3* *3* | | Cust Item ID: Customer: | : · | | | | | |
| Approvals: | Process Pl | an: | Date: | Tooling: SPC (Y/N): | Date Date | | | Rui | start Stop | 1/1 | R1* R2* |
| Sequence ID/ Work Center II 120 *120* QC Quality Control | D | Operation Description QC2- Inspect parts off m | nachine FAI/FAIB | Set Up/ Run Hours 0.00 | Tool ID | C | Code Qt | | Qty | Reject Number | Insp. Stamp |
| 130 *130* QC Quality Control | | QC8- Inspect parts - seco | ond check | 0.00 | | | _6 | 3 | | | <u>JL 13-</u> 3-2 |

131

131
HandFinish

Hand Finishing

0.00

Memo

0.00

CLEAN AND REMOVE ALL PART MARKING

| | | | | | | | | | DQA: | Date: | |
|---------------|------------|-------------|---------------|--------------|----------------------------|-----------|--------------------|------------|--------------|---------------|--------------------|
| NCR: | Yes / No | | | | WORK ORDER NON-C | ONFORI | MANCE / UPD | | QA Closed: | Date: | . # |
| | | | | | | | | — | | | |
| Work Orde | er: | | | | DISPOSITION | | | AGAINST DE | PARTMENT, | /PROCESS | |
| | | | - | | Rework | | Skid-tube | Crosstube | | Water Jet | Engineering |
| Part N | No. | | | | Scrap | | Machining | Small Fab | Pro | d. Eng. Coor. | Quality |
| | ' · · · | • | | | Use-as-is | Therr | noforming | Finishing | Rec/Sto | re/Packaging | Other |
| NCR N | No | | | | Work Order Update | | Large Fab | Composite | | Supplier | |
| Root | | T | | Descri | ption of work order update | Initial | Acti | on | Sign & | | |
| Cause | Date | Step | Qty | C | or Non-conformance | Chief Eng | Descri | iption | Date | Verification | QC Inspector |
| Doc/Data | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | |
| Operator | | | | | | | | | | | |
| Material | | | | | | | | | | | · |
| Setup | | | | | | | | | | | |
| Other | | | | | | | | | | | , |
| Process | | - | | | | į | | | | | |
| Supplier | | | | | | | | | | | |
| Training | | | | | | | | | | | |
| Unapproved | | | | | | | | | <u> </u> | | |
| | | | | | | AULT CATE | GORY | | | | |
| Landi | ng Gear | | | | General | | | _ | 7 | | 7 |
| | Bending | | | | Bend | Grain | | ļ | Ovalized | | Pressure/Forced |
| | Centre N | ot Conce | ntric to | O/S | BOM/Route | Hardwa | are | | Over/Under | tolerance | Temperature/Cure |
| | Cracks | | | _ | Broken/Damaged | — | ion Incomplete | | Part Incorre | | Weld |
| | Crushed/ | Crimped. | | | Burrs | _ | tions Incomplete/U | Inclear | Part Lost/Mi | issing | Wrong Stock Pulled |
| • | Cuffs | | | | Contamination | ⊢ | enance | | Part Moved | | |
| ļ | Heat Trea | at | | | Countersink | Mislabe | eled | | Positioned V | | • |
| | Inspectio | n Strip in | Tube | | Cut Too Short | Misrea | d | | Power Loss/ | 'Surge | Other |
| | Ripples in | n Bend | | | Drill Holes | Offset | | | | | |

Out of Calibration

Outside Dimensions

Out of Sequence

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

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| Work Ord November-19-12 | | | | *933 | 367* | | | | Page 3 |
|--|-----------------------|--|---|------------------------------|--------------------------|---------------------|------------|---------------------|------------------------------|
| Revision ID: | 647.1610 Wiper Deflec | tor, Fwd | | Accept | *N900 | <u>04010</u> | n * | Setup Start Stop | *NS1* *NS2* |
| Start Date: Required Date: Reference: | 11/15/12 12/07/12 | Start Qty: 3.00 Req'd Qty: 3.00 | *3* *3* | | Cust Item I Customer: | D: | | | |
| Approvals: | Process Pl | an: | Date: | Tooling: | Da | ate: | _ | Run Start | "INH I" |
| | QC: | | Date: | _ SPC (Y/N): | Da | ate: | - | Stop | *NR2* |
| Sequence ID/ Work Center II 140 *1 \(\begin{align*} *\) Outsource4 Outsource process - | | Operation Description Outsource process-Anod Memo Issue P/O: _ Black Anod | ize per QSI017 4.1.10.1 1943 ize as per Dwg 647.1610 | Set Up/ Run Hours 0.00 | Tool ID | Tool # Plan Code | - • | Qty | Reject Insp. Number Stamp |
| 150 *150* Packaging | | Receive & Inspect for Da | amage & Mat'l Certs | 0.00 | | | | 19 | 3/0/15(1) |
| Packaging | | · | | QAS 27 | | | | ŕ | , |
| *155 | | QC5- Inspect part comp | leteness to step on W/O | 0.00 | 5.13 | | 7 | | |
| QC | | Memo | | 0.00 | <i>- 1 /</i> | | | | |

Quality Control

| | | | | | | | | | | DQA: | Date: | |
|---------------|-----|------|------|--------------|------------------------------|--------------|----------|-------------------------------|-------------------------------|------------|---------------|------------------|
| NCR: Y | /es | / No | • | | WORK ORDER I | NON-CO | NFORM | MANCE / UP | | QA Closed: | Date: | |
| Marile Onda | | | | | DISPOSITIO | N | | | AGAINST DE | PARTMENT | /PROCESS | |
| Work Orde | er: | | | - | | | l | C1 : 4 . 4 . 4 | C | | Water Jet | Engineering |
| Part N | 10 | | | | i i | vork crap | ſ | Skid-tube Machining noforming | Crosstube Small Fab Finishing | | d. Eng. Coor. | Quality Other |
| NCR N | No | | | | Work Order Upd | | | Large Fab | Composite | | Supplier | |
| Root | | | | | Description of work order up | odate | Initial | Ac | tion | Sign & | | |
| Cause | | Date | Step | Qty | or Non-conformance | Cł | nief Eng | Desc | ription | Date | Verification | QC Inspector |
| Doc/Data | | | | | | | | | | | | |
| Equip/Tooling | | | | | | - | | | | | | |
| Operator | | | | | | | | | | | | • |
| Material | | | | | | | | | | | | • |
| Setup | | | | | | | | | - | | | |
| Other | | • | | | | | | | | | | |
| Process | | | | | · | | | | - | | | |
| Supplier | | | | | | | | | | | | |
| Training | | | | | | | | | | | | |
| Unapproved | | _ | | | | | | | | | | |
| | | | | | | FΔUI | T CATE | GORY | | | | |

| Landi | ng (| Gear | General | | | _ |
|-------|------|------------------------------|----------------|---------------------------------|----------------------|--------------------|
| | | Bending | Bend | Grain | Ovalized | Pressure/Forced |
| | | Centre Not Concentric to O/S | BOM/Route | Hardware | Over/Under tolerance | Temperature/Cure |
| | | Cracks | Broken/Damaged | Inspection Incomplete | Part Incorrect | Weld |
| | | Crushed/Crimped. | Burrs | Instructions Incomplete/Unclear | Part Lost/Missing | Wrong Stock Pulled |
| | | Cuffs | Contamination | Maintenance | Part Moved | - |
| | | Heat Treat | Countersink | Mislabeled | Positioned Wrong | - |
| | | Inspection Strip in Tube | Cut Too Short | Misread | Power Loss/Surge | Other |
| | | Ripples in Bend | Drill Holes | Offset | | |
| | | Torque Waves in Extrusion | Drawing | Out of Calibration | | |
| | | Turning Sequence | Finish | Out of Sequence | | |
| | | Wave/Twist in Tube | Folio | Outside Dimensions | | |

| Work Orde | | | | *933 | 367* | | | | | | | Page 4 |
|---------------------------------------|----------------------|------------------------------------|----------------------|------------------------------|--------------------------|------------|--------------|----------------|------------|---------------|------------------|----------------|
| Item ID: Revision ID: | 647.1610 | | | Accept | *N900 | 040 | 100 |)* | Setup | Start Stop | *N: | S1* |
| Item Name: | Wiper Deflec | ctor, Fwd | | | | | | | | Stop | *N: | S2* |
| Start Date: Required Date: | 11/15/12 12/07/12 | Start Qty: 3.00 Req'd Qty: 3.00 | *3* *3* | | Cust Item I Customer: | D: | | | | | | |
| Reference: Approvals: | Process Pl | an: | Date: | Tooling: | Di | ate: | | | Run | Start | *N | R1* |
| Approvais. | | ian: | | SPC (Y/N): | | ate: | | | | Stop | *N | R2* |
| Sequence ID/ Work Center II | D | Operation Description | 05.4.2 | Set Up/ Run Hours | Tool ID | Tool# | Plan Code | Accep Qty | t Re Qt | | Reject Number | Insp. Stamp |
| *160 *160* SprayPaint Spray Painting | | | PER DWG, SEE NOTE #3 | 0.00 | | | | 7 | <u></u> | Ø | Ø | A9 13-6-1 |
| 170 *170* QC Quality Control | | QC14- Inspect Spray Pai | nt | 0.00 AS 0.00 16 | Rloceloy | | | (17 |) – | | | |
| 180 | | ldentify as per dwg & Sto | ock Location:5743 | & _{0.00} | | | | | | | | F 0 |

0.00

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

Memo

180 Packaging

Packaging

| | | | | | | | | | | | DQA. | Date | : | |
|---|------|------------|------------|----------|--------|--|-----|-------------|---|---|--------------|---|---------------------|--|
| NCR: | Yes | / No | | | | WORK ORDER NON-O | COI | NFORM | MANCE / UPD | ATE | QA Closed: | : Date | · | 45. |
| | | | | | | DISPOSITION | | | | AGAINST DE | | · · · · · · · · · · · · · · · · · · · | | <u>. </u> |
| Work Ord | er: | | | | | <i></i> | | | | _ | -, A | - - | _ | |
| Part I | | | | | ····· | Rework Scrap Use-as-is Work Order Update | | Therm | Skid-tube Machining noforming Large Fab | Crosstube Small Fab Finishing Composite | - | Water Jet od. Eng. Coor. re/Packaging Supplier | E. | Quality Other |
| Root | | I | | | Descri | ption of work order update | | Initial | Acti | on | Sign & | | 1 | |
| Cause | | Date | Step | Qty | C | or Non-conformance | Cr | nief Eng | Descri | ption | Date | Verification | | QC Inspector |
| Doc/Data | | | | | | | | | , | | | | | |
| Equip/Tooling Operator Material Setup Other Process Supplier Training | | | | | | | | | | | | | | |
| Unapproved | | i | 1 | <u> </u> | | F | ΔΗ | LT CATE | SORY | | <u> </u> | 1 | | |
| Landi | ng (| Gear | | | | General | | | JOKI | | | | | |
| | r | Bending | | | Γ | Bend | Г | Grain | | Г | Ovalized | Γ | Pre | essure/Forced |
| | | Centre No | ot Concer | ntric to | o/s 🗀 | BOM/Route | Г | Hardwa | re | - | Over/Under | r tolerance | Ter | mperature/Cure |
| | - | Cracks | | | | Broken/Damaged | | Inspecti | on Incomplete | | Part Incorre | ect | \neg w ϵ | eld |
| | | Crushed/ | Crimped. | | | Burrs | | -1 | ions Incomplete/U | nclear | Part Lost/M | lissing | Wr | rong Stock Pulled |
| | | Cuffs | | | | Contamination | | Mainte | nance | | Part Moved | _ | | |
| | | Heat Trea | it | | | Countersink | | Mislabe | led | | Positioned ' | Wrong | | |
| | | Inspection | n Strip in | Tube | | Cut Too Short | | Misread | ı | | Power Loss, | /Surge | Ot | her |

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

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| Work Orde | | | | *933 | 367* | | | | | | | Page 5 |
|---|-------------------------|------------------------------------|----------------------|----------------------|--------------------------|------------|--------------|---------------|------------|---------------|------------------|----------------|
| Item ID: Revision ID: Item Name: | 647.1610 Wiper Defle | ctor. Fwd | | Accept | *N900 | 040 | 100 |)* | Setup | Start Stop | | S1* S2* |
| Start Date: Required Date: Reference: | 11/15/12 | Start Qty: 3.00 Req'd Qty: 3.00 | *3* *3* | | Cust Item I Customer: | ID: | | | | | I W | |
| Approvals: | Process P | lan: | Date: | Tooling: SPC (Y/N): | | ate: | | | Run | Start Stop | *N *N | R1* R2* |
| Sequence ID/ Work Center II | D | Operation Description | | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Rej Qty | | Reject Number | Insp. Stamp |
| *190 *190* | | QC21- Final Inspection | · Work Order Release | 0.00 | | | | | Mi | <u> </u> | 3-04 | -20- |

Quality Control

M15 1306-05

| | | | | | | | | | DQA: | Date: | • |
|---------------|------------|-------------|----------|----------|----------------------------|-----------|---------------------------------------|------------|--------------|---------------|--------------------|
| NCR: | es / No | | | | WORK ORDER NON-C | CONFOR | MANCE / UP | PDATE | QA Closed: | Date: | 3. |
| | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Work Orde | er: | | | | DISPOSITION | l | | AGAINST DE | PARTMENT | /PROCESS | |
| | | uu. | | | Rework | | Skid-tube | Crosstube |] | Water Jet | Engineering |
| Part N | ١٥. | | | <u> </u> | Scrap | | Machining | Small Fab | -1 | d. Eng. Coor. | Quality |
| | | | | | Use-as-is | Ther | moforming | Finishing | Rec/Sto | re/Packaging | Other |
| NCR 1 | No | | | | Work Order Update | | Large Fab | Composite | J | Supplier | |
| Root | | | | Descri | ption of work order update | Initial | Ac | ction | Sign & | - | |
| Cause | Date | Step | Qty | (| or Non-conformance | Chief Eng | Desc | cription | Date | Verification | QC Inspector |
| Doc/Data | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | |
| Operator | | | | | | | | | | | |
| Material | | | | | | | | | | | |
| Setup | | | 1 | | | | | | | | |
| Other | | | | | | | | | | | |
| Process | | | | | | | | | | | |
| Supplier | | | | | | | | | | | |
| Training | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | |
| | | | | | F. | AULT CATE | GORY | | | -c <u></u> | |
| Landi | ng Gear | | | <u></u> | General | | | | - | _ | 7 |
| | Bending | | | | Bend | Grain | | | Ovalized | L | Pressure/Forced |
| | Centre N | lot Conce | ntric to | o/s | BOM/Route | Hardw | are | | Over/Under | tolerance | Temperature/Cure |
| | Cracks | | | | Broken/Damaged | Inspec | tion Incomplete | | Part Incorre | ct | Weld |
| | Crushed | /Crimped | - | | Burrs | Instruc | tions Incomplete, | /Unclear | Part Lost/M | issing | Wrong Stock Pulled |
| | Cuffs | | | | Contamination | Maint | enance | | Part Moved | | • |
| | Heat Tre | at | | | Countersink | Mislab | eled | | Positioned \ | Wrong | _ |
| | Inspection | on Strip in | Tube | | Cut Too Short | Misrea | d | | Power Loss/ | 'Surge | Other |
| j | Ripples i | n Bend | | | Drill Holes | Offset | | | | | |

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence
Wave/Twist in Tube

Torque Waves in Extrusion

Drawing Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

November-19-12 9:04:30 AM

Work Order ID:

93367

Parent Item:

647.1610

Parent Item Name:

Wiper Deflector, Fwd

Start Date: 11/15/12

Required Date: 12/07/12

Start Qty: 3.00

Required Qty: 3.00

Comments:

IPP REV:A NEW ISSUE 12/11/01 JFS VERIFY BY: JLM

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| M7075T6B1.750X02.250 7075-T6 BAR 1.750" X 2. | | Purchased | No | | | 100 | f | 2.7705 | 0.563 | 1.7778947 | ٨. | 13/ | 03/25 |
| | | | | Location | | Loc Qty | <u>Lo</u> | c Code | | | | ' | |

123418

MAT008

2.7705

2.7705

3.966 ft

| | | | | | | | | | | | DQA: | Date: | |
|-----------------|----------|-----------|-----------|----------|-------------------|--|----------|---------|--|-------------|--------------|---|---------------------------|
| NCR: | Yes | / No | | | | WORK ORDER NON- | COI | NFORI | MANCE / UPDATE | | QA Closed: | Date | • |
| <u> </u> | | | | | | DISPOSITION | | | AGAI | NST DE | PARTMENT | | · |
| Work Ord | er: | | | | | | _ | | | | | _ | |
| Part I NCR I | • | | | | | Rework Scrap Use-as-is Work Order Update | | | Skid-tube Crosst Machining Small noforming Finish Large Fab Compo | Fab ning | i | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other |
| | 1 | | 1 | 1 | | | | | Antino | | Cian 0 | | |
| Root | | 6 . | <u>.</u> | ۵. | 1 | ption of work order update | 1 | Initial | Action | | Sign & | . Vaultiaatiaa | OC Inspector |
| Cause | 1 | Date | Step | Qty | • | or Non-conformance | Cr | ief Eng | Description | | Date | Verification | QC Inspector |
| Doc/Data | Ш | | | | | | | | | | | Ē | |
| Equip/Tooling | \vdash | | | | | | | | | | | | |
| Operator | Н | | | | | | | | | | | | |
| Material | Н | | | | | | | | | | | | |
| Setup | Н | | | | | | | | | | | | |
| Other | Н | | | | | | | | | | | | |
| Process | Н | | | | , | | | | | | | | |
| Supplier | Н | | | | ĺ | | | | | | | | |
| Training | - | | | | | | | | • | | | | |
| Unapproved | | |] | <u> </u> | l | | <u> </u> | TCATE | CORV | | l | <u> </u> | |
| <u> </u> | | | | | | | AUL | T CATE | GUKY | | | | |
| Landi | | l | | | | General | | 10:- | | | 10 | _ | 7 |
| | \vdash | Bending | | | | Bend | \vdash | Grain | | _ | Ovalized | <u> </u> | Pressure/Forced |
| j | - | Centre No | ot Concer | ntric to | ^{O/S} - | BOM/Route | \vdash | Hardwa | | - | Over/Under | | Temperature/Cure |
| | \vdash | Cracks | | | - | Broken/Damaged | - | 1 | on Incomplete | - | Part Incorre | _ | Weld |
| | - | Crushed/ | Crimped. | | | Burrs | - | 1 | ions Incomplete/Unclear | \vdash | Part Lost/M | issing | Wrong Stock Pulled |
| ļ 1 | \vdash | Cuffs | | | - | Contamination | \vdash | Mainte | | <u> </u> | Part Moved | | |
| 1 | 1 1 | Heat Trea | t | | | Countersink | 1 | Mislabe | eled | | Positioned V | Vrong | |

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

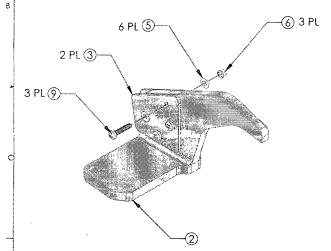
11 MATERIAL: ALUMINUM 7075-1651 AMS-QQ-A-250/12

ATERIAL: ALUMINUM 2024 T3 PER AMS QQ-A-250/4

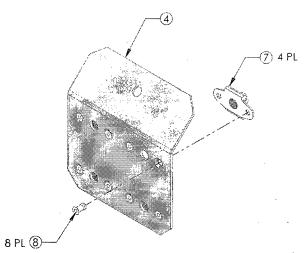
FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III. CLASS 2, COLOR BLACK: CARDINAL 4860-50 PRETREATMENT PRIME PRIME IAW MIL P 23377 J TYPE I CLASS N

4. DEBURR AND BREAK ALL SHARP EDGES

5. IDENTIFY IAW MPP-120



647.1601 SHOWN EXPLODED



647.1602 SHOWN EXPLODED

SHOLLY

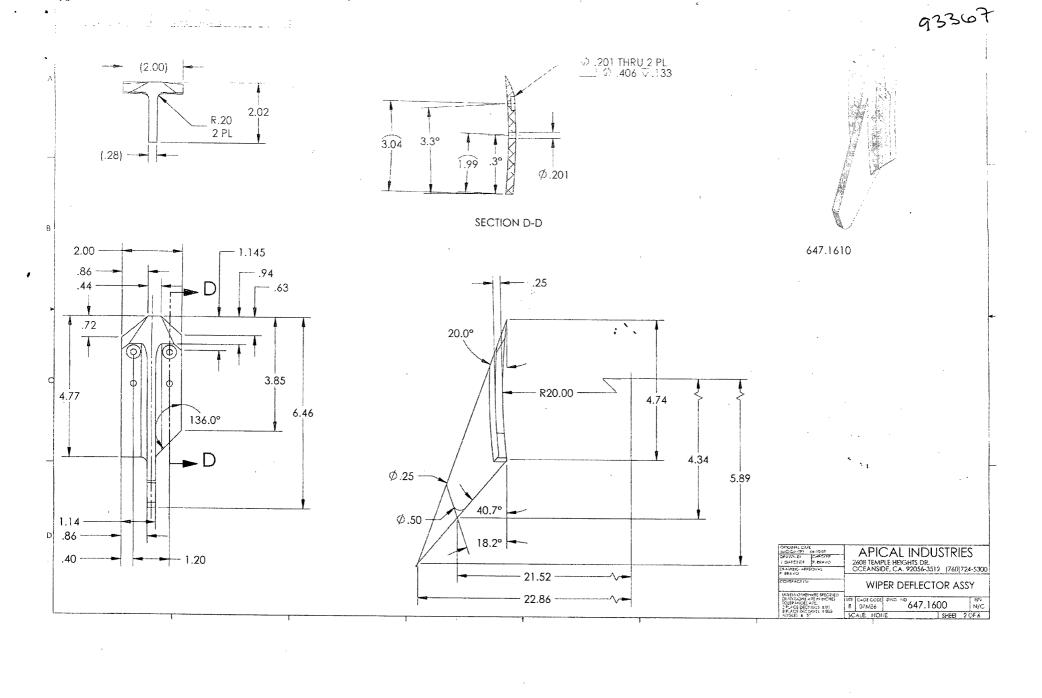
RETURE

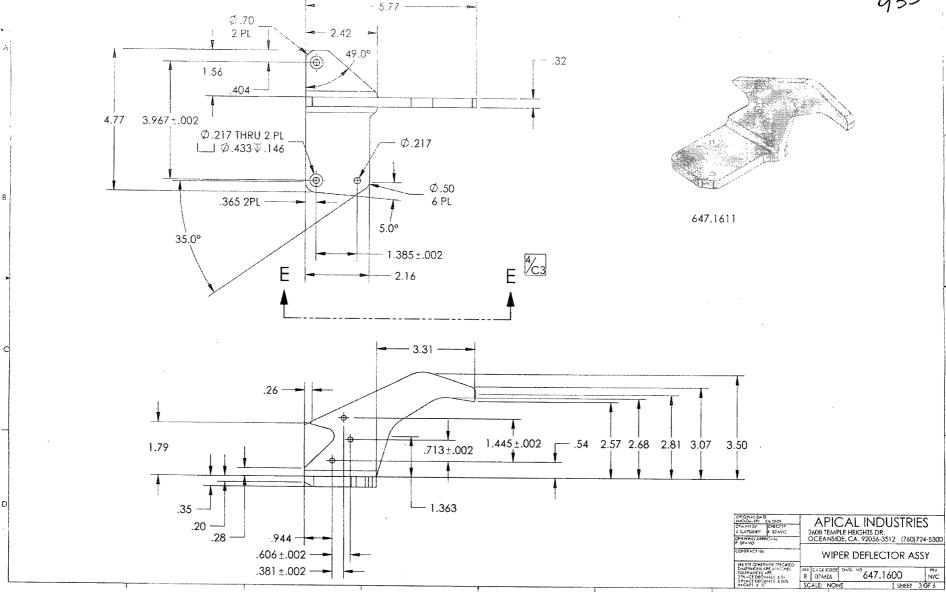
ENGINEEY

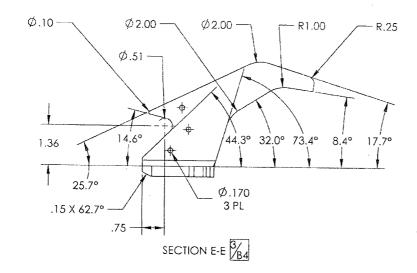
UNCONTROL

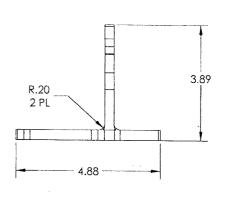
SUBJECT TO SUBJECT

| ···· | | | | | | | . 1 |
|----------------|-------|-----------|---|--------------|---|--------------------------|----------|
| | 3 | 9 | 601.2989 | SCREW | , | 1/4S27039-0612 | |
| 8 | | 8 | 601,2980 | NUTPLA | ATE RIVET | CCR26455-3-04 | |
| 4 | | 7 | 601.1900 | NUTPLA | \TE | 4/\$21059-0 | |
| | 3 | 6 | 601.2973 | LOCKN | iu i | W\$21542-05 ₁ | |
| | 6 | 5 | 601.2764 | WASHE | (R | MAS) [4966832F | |
| 1 | | 4 | 647.1613 | DOUBL | ER | <u> </u> | <u> </u> |
| | 2 | 3 | 647.1612 | SPLICE | PLATE | <u> </u> | Z3\ |
| | 1 | 2 | 647.1611 | WIPER | DEFLECTOR, AFT | \triangle | <u> </u> |
| | | 1 | 647.1610 | WIPER | DEFLECTOR, FWD | Δ | <u> </u> |
| Х | | | 647.1602 | DOUBL | ER ASSY | | |
| | Х | | 647.1601 | WIPER | DEFLECTOR ASSY, AFT | | |
| .:602 | .1501 | FIND # | PART# | | DESCRIPTION | MATE | SPEC. |
| OTY | | | | | PARTS LIST | | |
| NEXT A | | 1 6 | | CIFE | APICAL II | | IES |
| 647.1 | 300 | | OFFIDRER FEE PANNIG AFFFOV. 8PFVO -10409 | * G 3 | 2608 TEMPLE HEIGHT OCEANSIDE, CA. 92 | 3 DK. 056-3512 (760 | 724-5300 |
| ********** | | | TIGATY DEMPACT NO | ٣ | WIPER DEF | LECTOR A | SSY |
| | | 1.6 | RILLIS OTHERWITE BASHSONS ARE E | THE SEC | SHE CACH CORE DVG NO. | 47.1400 | 887 |

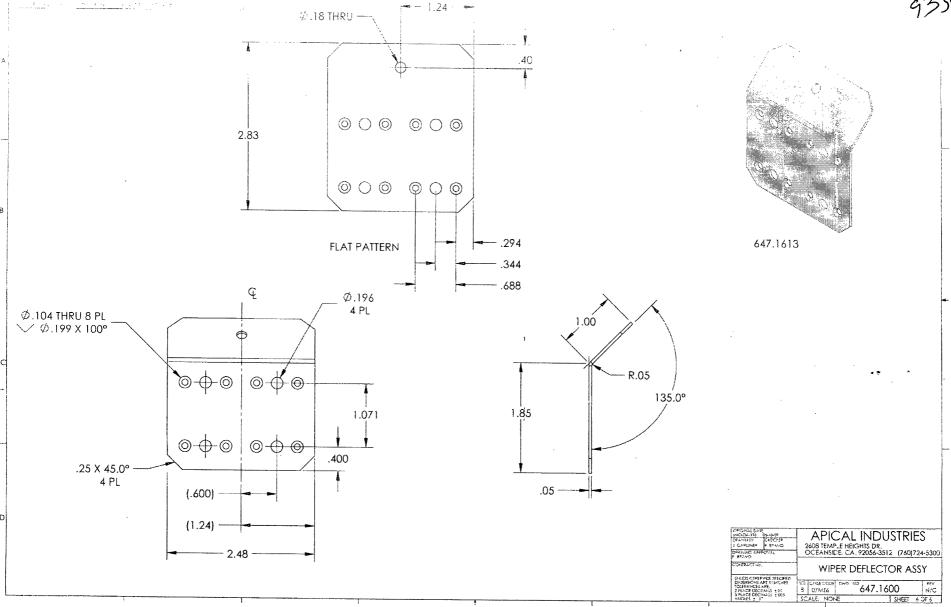








| OF CREAL DATE (MODALTR) GC-1009 DPAWES CONCER L GAPOORE P. REAVO L GAPOORE P. REAVO DRAWAGE P SPAVO P | 2608 TEMP | CAL INDUSTRI PLE HEIGHTS DR. DE. CA. 92056-3512 (760) | |
|--|--------------------------|---|-------------|
| COMPACT No. | WIP | ER DEFLECTOR A | SSY |
| UNIESS OTHERWISE SPECIFIED COMBINEME AFE IN INCHES FIGURANCIES AFE IN INCHES FIRE DECIMALS A DISTRIBUTION OF THE PROPERTY OF T | 926 C+GP CODE 8 07MZ6 | 647.1600 | ₽EV. N/C |



| DART AEROSPACE LTD | Work Order: | 93347 |
|-----------------------------------|--------------|-------------|
| Description: WIPER DEFLECTOR, FWD | Part Number: | 647. 1610 |
| Inspection Dwg: 647.1600Rev: N/C | | Page 1 of 1 |

FIRST ARTICLE INSPECTION CHECKLIST

| Drawing Dimension | Tolerance | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|----------------------|--------------|------------------|--------|--------|-------------------------|----------|
| 2.00 | ±-010 | 1.997 | | | Vern | 92-06 |
| 2.02 | =010 | 2.027 | | | 14-6- | 31006 |
| R- 120 | ±010 | R. 190 | | | Rd | |
| . 28 | · . | .274 | | | Ven | 11-01 |
| .86 | 11 | .860 | | | 4-6 | 31006 |
| .44 | , t | .430 | | | Vern | 11606 |
| .72 | ,, | . 736 | | | 4-6 | 31006 |
| 4.77 | (1 | 4.745 | | | ٦, | |
| 114 | /1 | 1.140 | | | ٤ | |
| .86 | 11 | 1.862 | | | 1 1 | |
| .40 | () | .400 | | | 1, | |
| 1.20 | *; | 1.200 | | | 1/ | |
| 1360 | 走 <i>发</i> ° | 1360 | | | C-Surro | MLL-CBB |
| 6.46 | +-010 | 6.460 | | | 4-6 | 31006 |
| 3.85 | • (| 3.850 | | | '(| 10 |
| .63 | /) | .630 | | | "/ | |
| ,94 | 11 | .940 | / | | " | |
| 1.145 | = 005 | 1.145 | | | , . | |
| .26 | ±.10/10 | .254 | | | nie | 118-120 |
| 20' | ± ½° | 200 | | | C-Square | |
| B.25 | ± 0/0 | 8.280 | | | ROG | |
| Ø.50 | // | Ø.500 | | | ,, | |
| 40.7' | 土′′2′ | 40.70 | | | C-Squar | 0 |

| Measured by: | and | Audited by: | Preliminary Approval: | _ |
|--------------|----------|---------------|-----------------------|---|
| Date: | 13/03/28 | Date: 3-3-27 | Date: | |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|----------------------------|------------|----------|
| E | 10.04.14 | Added preliminary approval | KJ | |

| DART AEROSPACE LTD | Work Order: | 93367 | |
|-------------------------------------|--------------|-------------|--|
| Description: WIPER DEFLECTOR, FWD | Part Number: | 647.12.12 | |
| Inspection Dwg: (U7.11.110 Rev: N/C | | Page 1 of 1 | |

FIRST ARTICLE INSPECTION CHECKLIST

| Drawing Dimension | Tolerance | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|----------------------|-----------|---------------------|--------|----------|-------------------------|----------|
| 18.2° | ±1/2° | 18.20 | | | C-Sur | ML-18B |
| 4.74 | ± 010 | 4.740 | | | 716 | 31006 |
| 8.201 | +.005 | 18.202 | | | Ven | MUDE |
| ,3° | ±1/2° | ,3° | | | C-Square | MICEBS |
| 8.201 | + 005 | 8.202 | | ! | Vern | 11.06 |
| B.406 | +.006 | 8.202 B.406 | | | ,, | |
| ./33 | ±.005 | 134 | | | 11 | |
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| Measured by: | Audited by: | Preliminary Approval: | |
|----------------|---------------|-----------------------|--|
| Date: 13/03/21 | Date: 13-3-27 | Date: | |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|----------------------------|------------|----------|
| E | 10.04.14 | Added preliminary approval | KJ | |



A.T.G. Industries Inc. 731, rue Industrielle Rd. PLATING DEPARTMENT Rockland, On K4K 1T2 Canada

Ph: (613) 446-4544 Fax: (613) 446-4556

Pack List

Number: 62347

Date: 30-Apr-13

То

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7 Ship To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

Canada

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

| ns | | Ship Via | | |
|-------------|--|-----------------------------|--------------------------------------|---|
| Quantity | Description | | | |
| 1 | Part: ASST | | Rev: | |
| lot | 12 PCS D2055 BLACK ANODIZE MIL-A-8625 TYPE II CLASS 2 | | | |
| | 12 PCS 645.3012 8 PCS 646.9710 7 PCS 647.1610 2 PCS 647.9312 | | | |
| | 9 PCS 647.9612 7 PCS 647.9613 8 PCS 647.9313 HARD ANODIZE BLACK | | | |
| | MIL-A-8625 TYPE III CLASS 2 Job: 20130248 | PO: 19493 | Line: | |
| | Certificate of Co | onformance | | • |
| | A.T.G. Industries certifies that all item with all requirements, specifications at | s in this shipment are in o | conformance n the purchase order. | |
| | ISO 9001 : 2008 RI ATG SALES-2010 | EGISTERED TERMS APPLY | | |
| • | DATE: 30/4/13 | A. | | |
| | CERTIFIED SIGNATURE : | inne Jilon | | |
| | RECEIVER SIGNATURE : | MAD' ALON |) | |
| | | | | |
| | | | | |